VOLUME 8, 1971
CONTENTS

Number 1 — issued January 1971

PARVATHY, K., Carbohydrate metabolism of two crustaceans during starvation. 1

SMITH, A. C. and R. A. GOLDSTEIN, "Natural" agglutinins against sea urchin sperm in the hemolymph of the crab *Cardisoma guanhumi*. 6

GILLEN, R. G., The effect of pressure on muscle lactate dehydrogenase activity of some deep-sea and shallow-water fishes. 7

FOSTER, B. A., Desiccation as a factor in the intertidal zonation of barnacles. 12

KRISHNAMOORTHY, R. V. and A. VENKATRAMIAH, Kinetic changes in flexor myosin ATPase of *Scylla serrata* adapted to different salinities. 30

HOLDICH, D. M., Changes in physiology, structure and histochemistry occurring during the life-history of the sexually dimorphic isopod *Dynamene bidentata* (Crustacea: Peracarida). 35

BIEBL, R. and C. P. MCROY, Plasmatic resistance and rate of respiration and photosynthesis of *Zostera marina* at different salinities and temperatures. 48

FØYN, E. and S. HANNEBORG, Determination of ^{14}C labelled carbonate in solution. 57

QURAISHI, F. O. and C. P. SPENCER, Studies on the growth of some marine unicellular algae under different artificial light sources. 60

BOUCAUD-CAMOU, E., Constituants lipidiques du foie de *Sepia officinalis*. [Lipid constituents of the liver of *Sepia officinalis*]. 66

FAGETTI, E. and I. CAMPODONICO, Larval development of the red crab *Pleuroncodes monodon* (Decapoda Anomura: Galatheidae) under laboratory conditions. 70

BOLETZKY, S. VON, M. V. VON BOLETZKY, D. FRÖSCH and V. GÄTZI, Laboratory rearing of Sepiolinae (Mollusca: Cephalopoda). 82

Corrigendum Notice. 87

Number 2 — issued February 1971

KAMATANI, A., Physical and chemical characteristics of biogenous silica. 89

BADAWI, H. K., Electrophoretic studies of serum proteins of four *Tilapia* species (Pisces). 96

SCHMID, V. and P. TARDENT, The reconstitutional performances of the Leptomedusa *Campanularia jonstoni*. 99

GOLD, K., Growth characteristics of the mass-reared tintinnid *Tintinnopsis beroidea*. 105

MANGOLD, K., S. VON BOLETZKY and D. FRÖSCH, Reproductive biology and embryonic development of *Eledone cirrosa* (Cephalopoda: Octopoda). 109

LOUGH, R. G. and J. J. GONOR, Early embryonic stages of *Adula californiensis* (Pelecypoda: Mytilidae) and the effect of temperature and salinity on developmental rate. 118

CASIMIR, M. J., Zur Morphologie, Histochemie, Tagesperiodik und Biologie der Operculardrüse bei Labriden und Scariden (Pisces). [On the morphology, histochemistry, diurnal rhythms and biology of the opercular gland of labrids and scarids (Pisces)]. 126

KRÜGER, F., Mathematische Analyse der kombinierten Wirkung von Temperatur und Salzgehalt auf den Stoffwechsel von *Tilapia mossambica* (Teleostei). [Mathematical analysis of combined temperature and salinity effect on the metabolism of *Tilapia mossambica* (Teleostei)]. 147

EMIG, C. C., Remarques sur la systématique des Phoronidea X. Notes sur l'écologie, la morphologie et la taxonomie de *Phoronis ijimai* et de *P. vancouverensis*. [Remarks on the systematics of Phoronidea X. Notes on the ecology, morphology and taxonomy of *Phoronis ijimai* and *P. vancouverensis*]. 154

MORDUKHAI-BOLTOVSKOI, PH. D. and I. K. RIVIER, A brief survey of the ecology and biology of the Caspian Polyphemoidea. 160

MUKAI, H., The phytal animals on the thalli of *Sargassum serratifolium* in the *Sargassum* region, with reference to their seasonal fluctuations. 170

Number 3 — issued March 1971

BLUMER, M., R. R. L. GUILLARD and T. CHASE, Hydrocarbons of marine phytoplankton. 183

YOUNGBLOOD, W. W., M. BLUMER, R. L. GUILLARD and F. FIORE, Saturated and unsaturated hydrocarbons in marine benthic algae. 190

BADAWI, H. K. and M. M. SAID, A comparative study of the blood of four *Tilapia* species (Pisces). 202

MADAN MOHAN RAO, G., Influence of activity and salinity on the weight-dependent oxygen consumption of the rainbow trout *Salmo gairdneri*. 205

RADHA, E., Some notes on the population dynamics of the monogenean gill parasite *Gastrocotyle indica*. 213

SKORKOWSKI, E. F., Isolation of three chromatophorotropic hormones from the eyestalk of the shrimp *Crangon crangon*. 220

FOWLER, S. W., L. F. SMALL and J. M. DEAN, Experimental studies on elimination of zinc-65, cesium 137 and cerium-144 by euphausiids. 224

DEXTER, D. M., Life history of the sandy-beach amphipod *Neohaustorius schmitzi* (Crustacea: Haustoriidae). 232

MICHEL, A. et R. GRANDPERRIN, Traitement des récoltes micronectoniques. [Treatment of micronekton collections]. 238

OLIVE, P. J. W., Ovary structure and oogenesis in *Cirratulus cirratus* (Polychaeta: Cirratulidae). 243

POPHAM, J. D. and D. V. ELLIS, A comparison of traditional, cluster and Zürich-Montpellier analyses of infaunal pelecypod associations from two adjacent sediment beds. 260

LORENZEN, S., *Ixonema sordidum* gen.n., sp.n. (Microlaimidae, Nematoda) aus sublitoralem Grobsand bei Helgoland. [*Ixonema sordidum* gen.n., sp.n. (Microlaimidae, Nematoda) from sublittoral coarse sand near Helgoland]. 267

Number 4 — issued March 1971

GANNING, B., On the ecology of *Heterocypris salinus*, *H. incongruens* and *Cypridopsis aculeata* (Crustacea: Ostracoda) from Baltic brackish-water rockpools. 271

MENON, N. R. and N. B. NAIR, Ecology of fouling bryozoans in Cochin waters. 280

TRAVERS, M., Diversité du microplancton du Golfe de Marseille en 1964. [Microplankton diversity of the Gulf of Marseilles in 1964]. 308

KOHLMEYER, J., Fungi from the Sargasso Sea. 344

WEIGMANN, R., Eine isolierte Population von *Pseudeuphausia latifrons* (Crustacea: Euphausiacea) im Persischen Golf. [An isolated population of *Pseudeuphausia latifrons* (Crustacea:Euphausiacea) in the Persian Gulf]. 351